M Series

Multi-variable cable carrier with extensive accessories and frame-stay variants*

- TÜV design approved in accordance with 2PFG 1036/10.97**
- Universal Mounting Brackets (UMB)
- Aluminum stay option with ball joint
- Can be opened quickly on the inside and the outside for easy cable installation
- MC Series Aluminum stays available in the exact width you require
- WIDTH SECTIONS
- MT RMD Tube Series Aluminum cover available in 1 mm width sections
- WIDTH SECTIONS
- MT Tube Series Plastic cover available in 8 or 16 mm width sections
- Large choice of stay systems and ways of separating the cables

- Locking bolts
- Enclosed stop system protected from dirt/contamination
- Dividers can be fixed in place
- C-Rail for strain relief elements
- Minimized hinge wear owing to the “life extending 2 disc principle”
- Replaceable glide shoes
- Extremely robust due to stable plate construction

** Some features can be different for certain types for design reasons. Our specialists are happy to advise you.
** not MC 1300

Specifications are subject to change without notice.

Need help? 1-800-443-4216 or www.kabelschlepp.com

Specifications are subject to change without notice.

VARIITRAK MT
nylon • tube style • customizable widths

24.01
### Technical Data

#### Series: MT 0475

<table>
<thead>
<tr>
<th>Option</th>
<th>Mounting Height (H)</th>
<th>Bend Radius (KR*)</th>
<th>Depot (UB)</th>
<th>Loop Length (LB)</th>
</tr>
</thead>
<tbody>
<tr>
<td>A</td>
<td>7.44 (189)</td>
<td>2.95 (75)</td>
<td>5.59 (142)</td>
<td>13.03 (331)</td>
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<tr>
<td>B</td>
<td>9.41 (239)</td>
<td>3.94 (100)</td>
<td>6.57 (167)</td>
<td>16.14 (410)</td>
</tr>
<tr>
<td>C</td>
<td>11.77 (299)</td>
<td>5.12 (130)</td>
<td>7.76 (197)</td>
<td>19.84 (504)</td>
</tr>
<tr>
<td>D</td>
<td>14.13 (359)</td>
<td>6.30 (160)</td>
<td>8.94 (227)</td>
<td>23.54 (598)</td>
</tr>
<tr>
<td>E</td>
<td>17.28 (439)</td>
<td>7.87 (200)</td>
<td>10.51 (267)</td>
<td>28.50 (724)</td>
</tr>
<tr>
<td>F</td>
<td>21.22 (539)</td>
<td>9.84 (250)</td>
<td>12.48 (317)</td>
<td>34.69 (881)</td>
</tr>
<tr>
<td>G</td>
<td>25.16 (639)</td>
<td>11.81 (300)</td>
<td>14.45 (367)</td>
<td>40.87 (1038)</td>
</tr>
</tbody>
</table>

* Reverse Bend Radius (RKR) links are available for long travel systems that require a lowered mounting height. Consult factory for details.

### Calculation of Chain Length

\[
L_B = \text{total machine travel} \\
L_B = 3.14 \times KR + (2 \times t \text{ safety factor}) \\
L_B = \text{chain length required} \\
L_B = \frac{LS}{2} + \text{length of the curve (LB)*} \\
\]

* Assumes the Fixed Point is located at the Center of the Total Machine Travel.

### Self-Supporting Lengths

<table>
<thead>
<tr>
<th>Unsupported Length</th>
<th>0.82</th>
<th>0.92</th>
<th>1.04</th>
<th>1.26</th>
<th>1.48</th>
<th>1.70</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>1.0</td>
<td>1.5</td>
<td>2.0</td>
<td>2.5</td>
<td>3.0</td>
<td>3.5</td>
</tr>
</tbody>
</table>

Extended Travel:

When application travel exceeds the self-supporting length of the carrier, VARITRAK MT carrier systems are designed to glide on themselves in a guide channel.

For more information on extended travel systems, see pages 02.27 - 02.36
### Why use RMD system

- Completely enclosed cavity design provides excellent protection from chips and debris.
- Aluminum lids are highly heat resistant, offering added protection from hot chips.
- Vertical dividers can be slid into position.
- Numerous options for partitioning cavity contents.
- Ideal when ultra versatile and customizable designs are required.
- Hinged-opening lids on outside radius allow for easy access to carrier cavity for installation and service of carrier contents. Lids are removable on inside and outside radius for additional service options. On 0475 MT, a hinged-opening option is also available on the inside radius upon request.
- Replaceable glide shoes extend system life in long travel applications.
- Available in widths customized to the exact dimension to fit any application's width restrictions.

### RMD System Assembly Detail

**MT0475 - 32mm - RMD - (# of links) - (brackets) - (dividers)**

<table>
<thead>
<tr>
<th>Recommended Minimum Width</th>
<th>hG = 1.54 (39)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Bk = 1.93 (49)</td>
<td></td>
</tr>
<tr>
<td>Bi = 1.26 (32)</td>
<td></td>
</tr>
<tr>
<td>hi = 1.02 (26)</td>
<td></td>
</tr>
</tbody>
</table>

**MT0475 - 180mm - RMD - (# of links) - (brackets) - (dividers)**

<table>
<thead>
<tr>
<th>Recommended Maximum Width</th>
<th>hG = 1.54 (39)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Bk = 7.67 (197)</td>
<td></td>
</tr>
<tr>
<td>Bi = 7.09 (180)</td>
<td></td>
</tr>
<tr>
<td>hi = 1.02 (26)</td>
<td></td>
</tr>
</tbody>
</table>

- PN: 71602
- dividers can be slid into position
- hinged-opening (from left or right) aluminum lids on the outside radius
- twist in/out aluminum lids on the inside radius are standard, hinged-opening lids are available upon request for 0475 MT

**Specifications**

- MT0475 - 32mm - RMD - (# of links) - (brackets) - (dividers)
- MT0475 - 180mm - RMD - (# of links) - (brackets) - (dividers)

**Note:** For extended widths, multiple chain-band designs are available, please consult factory: 1-800-443-4216

---

**Bk** = Outer chain width

**Bi** = Inner chain cavity (usable) width

**hG** = Outer chain link height

**hi** = Inner chain cavity (usable) height

**ST** = Vertical divider thickness

---

**Series:** MT 0475

**Features:**

- Rugged aluminum lids that hinge open from either the left or right side on the outside radius of the carrier. On the 0475 MT, hinged-opening lids are also available for inside radius upon request. Lids on outside and inside radius can also be removed.
- Usable Cavity Widths (Bi) are available from 1.26" (32 mm) through 7.09" (180 mm) in any width increment.
- Special narrower custom widths may be possible based on application. Consult factory for details.
Series MT 0475

RDD Lid System

Features glass fiber reinforced nylon lids that hinge open from either the left or right side on the outside radius of the carrier. On the 0475 MT, hinged-opening lids are also available for inside radius upon request. Lids on outside and inside radius can also be removed.

Usable Cavity Widths ($B_l$) are available from 0.94" (24 mm) through 11.02" (280 mm) in 33 width options in even increments of 0.32" (8 mm).

Available Cavity Widths ($\bar{B}_l$) = 0.94 (24), 1.26 (32), 1.57 (40), 1.89 (48), 2.20 (56), 2.52 (64), 2.83 (72), 3.15 (80), 3.46 (88), 3.78 (96), 4.09 (104), 4.72 (112), 4.72 (120), 5.04 (128), 5.35 (136), 5.67 (144), 5.98 (152), 6.30 (160), 6.61 (168), 6.93 (176), 7.24 (184), 7.56 (192), 7.87 (200), 8.19 (208), 8.50 (216), 8.82 (224), 9.13 (232), 9.45 (240), 9.76 (248), 10.08 (256), 10.39 (264), 10.71 (272), 11.02 (280) (width sizes shown in blue are from stock).

MT0475 - 24mm - RDD - (KR) - (# of links) - (brackets) - (dividers)

Recommended MINIMUM Width

$$B_k = 1.61 \quad (41)$$

$$B_k = B_l + 0.67 \quad (17)$$

$$h_G = 1.54 \quad (39)$$

$$b_i = 0.94 \quad (24)$$

$$h_i = 1.02 \quad (26)$$

$$h_i = h_G = 1.54$$

PN: 71625

dividers can be slid into position or locked in-place

$$0.11 = ST$$

MT0475 - 280mm - RDD - (KR) - (# of links) - (brackets) - (dividers)

Recommended MAXIMUM Width

$$B_k = 11.09 \quad (287)$$

$$h_G = 1.54 \quad (39)$$

$$B_i = 11.02 \quad (280)$$

$$h_i = 1.02 \quad (26)$$

$$h_i = h_G = 1.54$$

Why use RDD system

- Completely enclosed cavity design provides excellent protection from hot chips and debris.
- Rugged fiber reinforced nylon lids are removable on both the inside and outside radius for easy installation and service.
- Hinged-opening lids on outside radius allow for easy access to carrier cavity for installation and service of carrier contents. Lids are removable on inside and outside radius for additional service options. On MT 0475, a hinged-opening option is also available on the inside radius upon request.
- Dividers lock into position.
- Replaceable glide shoes extend system life in long travel applications.
- Widths are available to fit most any application's width restrictions in 0.31 (8 mm) increments.

RDD System Assembly Detail

Mounting Bracket Options

For detailed drawings and dimensions of available options, please see page 24.05.
VARITRAK MT MOUNTING BRACKETS

VARITRAK 0475M brackets can be configured in a variety of positions to accommodate your application’s unique requirements.

MT 0475 Bracket Position Options

Bracket End
M - Moving End
F - Fixed End

Bracket Position
A - connecting surface on outside radius (standard)
I - connecting surface on inside radius
F - face/flange mount

Bracket feet on the standard brackets can be positioned facing inward (I) which is the standard position or facing outward (A).

Please specify the desired bracket variant and position when ordering.
Example: FAA/MAI (Standard) or FAA/MIA.

The bracket positions at the Fixed End and Moving End can be changed later if required.

MT 0475 Fixed End Bracket

MT 0475 Moving End Bracket

Specifications are subject to change without notice.

Need help? 1-800-443-4216 or www.kabelschlepp.com
**Specifications are subject to change without notice.**

**KSA-L15015-GC**

---

### How To Order

1-800-443-4216

---

### Technical Data

#### Series

**MT 0650**

<table>
<thead>
<tr>
<th>Option</th>
<th>Mounting Height (H)</th>
<th>Bend Radius (KR)**</th>
<th>Depot Length (UB)</th>
<th>Loop Length (LB)</th>
</tr>
</thead>
<tbody>
<tr>
<td>A*</td>
<td>9.72 (247)</td>
<td>3.74 (95)</td>
<td>7.44 (189)</td>
<td>16.89 (429)</td>
</tr>
<tr>
<td>B</td>
<td>11.30 (287)</td>
<td>4.53 (115)</td>
<td>8.23 (209)</td>
<td>19.37 (492)</td>
</tr>
<tr>
<td>C</td>
<td>13.66 (347)</td>
<td>5.71 (145)</td>
<td>9.41 (239)</td>
<td>23.07 (586)</td>
</tr>
<tr>
<td>D</td>
<td>16.02 (407)</td>
<td>6.89 (175)</td>
<td>10.59 (269)</td>
<td>26.77 (680)</td>
</tr>
<tr>
<td>E</td>
<td>19.57 (497)</td>
<td>8.66 (220)</td>
<td>12.36 (314)</td>
<td>32.36 (822)</td>
</tr>
<tr>
<td>F</td>
<td>25.87 (657)</td>
<td>11.81 (300)</td>
<td>15.51 (394)</td>
<td>42.24 (1073)</td>
</tr>
<tr>
<td>G</td>
<td>29.80 (757)</td>
<td>13.78 (350)</td>
<td>17.48 (444)</td>
<td>48.43 (1230)</td>
</tr>
</tbody>
</table>

**Note:**
- * Bend Radius Option A (95) is not available with the RMD aluminum lid option.
- ** Reverse Bend Radius (RKR) links are available for long travel systems that require a lowered mounting height. Consult factory for details.

---

### Self-Supporting Lengths

- **Type MT 0650**
- **Extended Travel:** When application travel exceeds the self-supporting length of the carrier, VARITRAK MT carrier systems are designed to glide on themselves in a guide channel.

---

### How To Order

- **Number of Systems Req.**
- **Carrier Type**
- **Cavity Width (Bi)**
- **Type Frame Stay**
- **Bend Radius**
- **# of Links**
- **Type & Position Brackets**
- **Dividers (#vert / #horz)**

| 4 x MT0650 - 10.00” - RMD - 175 x 65 Links + FA/MAI + 4v2h |

---

For more information on extended travel systems, see pages 02.27 - 02.36
### RMD Lid System

Features rugged aluminum lids that hinge open from either the left or right side on the outside radius of the carrier. Lids on outside and inside radius can also be removed.

Usable Cavity Widths ($B_i$) are available from 3.94" (100 mm) through 19.69" (500 mm) in any width increment.

**MT0650 - 100mm - RMD - (# of links) - (brackets) - (dividers)**

**Recommended MINIMUM Width**

```
B_k = 2.37 (60.2)
B_i = 3.94 (100)
1.52 (38.5) = h_l
2.24 (57) = h_G
```

```
B_k = B_i + 1.34 (34)
```

**MT0650 - 500mm - RMD - (# of links) - (brackets) - (dividers)**

**Recommended MAXIMUM Width**

```
h_G = 2.34 (57)
B_i = 19.69 (500)
1.52 (38.5) = h_l
```

**Why use RMD system**

- Completely enclosed cavity design provides excellent protection from chips and debris.
- Aluminum lids are highly heat resistant, offering added protection from hot chips.
- Vertical dividers can be slid into position.
- Numerous options for partitioning cavity contents.
- Ideal when ultra versatile and customizable designs are required.
- Hinged-opening lids on outside radius allow for easy access to carrier cavity for installation and service of carrier contents. Lids are removable on inside and outside radius for additional service options.
- Replaceable glide shoes extend system life in long travel applications.
- Available in widths customized to the exact dimension to fit any application’s width restrictions.

### RMD Assembly Detail

- PN: 51851

**Note:** For extended widths, multiple chain-band designs are available, please consult factory: 1-800-443-4216

### Mounting Bracket Options

For detailed drawings and dimensions of available options, please see pages: 24.22 - 24.23

Need help? 1-800-443-4216 or www.kabelschlepp.com
**RDD Lid System**

Features glass fiber reinforced nylon lids that hinge open from either the left or right side on the outside radius of the carrier.

Usable Cavity Widths ($B_i$) are available from 1.97" (50 mm) through 10.16" (258 mm) in 27 width options in even increments of 0.31" (8 mm).

Available Cavity Widths ($B_i$) = 1.97 (50), 2.28 (58), 2.60 (66), 2.91 (74), 3.23 (82), 3.54 (90), 3.86 (98), 4.17 (106), 4.49 (114), 4.80 (122), 5.12 (130), 5.43 (138), 5.75 (146), 6.06 (154), 6.38 (162), 6.69 (170), 7.01 (178), 7.32 (186), 7.64 (194), 7.95 (202), 8.27 (210), 8.58 (218), 8.90 (226), 9.21 (234), 9.53 (242), 9.84 (250), 10.16 (258)

(width sizes shown in blue are from stock)

**Why use RDD system**

- Completely enclosed cavity design provides excellent protection from hot chips and debris.
- Rugged fiber reinforced nylon lids are removable on both the inside and outside radius for easy installation and service.
- Outside radius lids also hinge snap-open from either side allowing additional service.
- Dividers lock into position.
- Replaceable glide shoes extend system life in long travel applications.
- By using the twist-in snap locking bar construction, a strong "box" compartment is formed surrounding the contents.
- Widths are available to fit most any application's width restrictions in 0.31 (8 mm) increments.

**RDD System Assembly Detail**

**Mounting Bracket Options**

For detailed drawings and dimensions of available options, please see pages: 24.22 - 24.23

Specifications are subject to change without notice.

KSA-L15015-GC

MT0650 - 50mm - RDD - (# of links) - (brackets) - (dividers)

```
Recommended MINIMUM Width

$B_k = 3.31$ (84)

$B_i = 1.97$ (50)

$B_k = B_i + 1.34$ (34)

$B_k = Outer chain width$

$h_G = Outer chain link height$

$hi = Inner chain cavity (usable) height$

$ST = Vertical divider thickness$
```

**MT0650 - 258mm - RDD - (# of links) - (brackets) - (dividers)**

```
Recommended MAXIMUM Width

$B_k = 11.50$ (282)

$B_i = 10.16$ (258)

$h_G = 2.24$ (57)

$B_i = Inner chain cavity (usable) width$

$B_k = Outer chain link height with optional glide-shoes$

$hi = Inner chain cavity (usable) height$

$ST = Vertical divider thickness$
```

hinged-opening (from left or right) fiber reinforced nylon lids on the outside radius

twist in/out fiber reinforced nylon lids on the inside radius

Replaceable glide shoes are available for extending system life in long travel gliding applications. Consult factory for details.

MT0650 - 50mm - RDD - (# of links) - (brackets) - (dividers)
## DESIGN AND LAYOUT NOTES

<table>
<thead>
<tr>
<th>Name: ______________________________</th>
<th>Date: __________________________</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dept.: ____________________________</td>
<td>Phone: ______________ Fax: __________</td>
</tr>
<tr>
<td>Company: __________________________</td>
<td>Machine Type/Name: ____________</td>
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<tr>
<td>Address: ____________________________________________</td>
<td></td>
</tr>
</tbody>
</table>
### Technical Data

#### Series

**MT 0950**

<table>
<thead>
<tr>
<th>Option</th>
<th>Mounting Height</th>
<th>Bend Radius</th>
<th>Depot</th>
<th>Loop Length</th>
</tr>
</thead>
<tbody>
<tr>
<td>A*</td>
<td>H = 14.17 (360)</td>
<td>KR = 5.51 (140)</td>
<td>U_B = 10.83 (275)</td>
<td>L_B = 24.80 (630)</td>
</tr>
<tr>
<td>B*</td>
<td>H = 16.54 (420)</td>
<td>KR = 6.69 (170)</td>
<td>U_B = 12.01 (305)</td>
<td>L_B = 28.54 (725)</td>
</tr>
<tr>
<td>C</td>
<td>H = 18.90 (480)</td>
<td>KR = 7.87 (200)</td>
<td>U_B = 13.19 (335)</td>
<td>L_B = 32.24 (819)</td>
</tr>
<tr>
<td>E</td>
<td>H = 25.98 (660)</td>
<td>KR = 11.42 (290)</td>
<td>U_B = 16.73 (425)</td>
<td>L_B = 43.39 (1102)</td>
</tr>
<tr>
<td>F</td>
<td>H = 28.35 (720)</td>
<td>KR = 12.60 (320)</td>
<td>U_B = 17.91 (455)</td>
<td>L_B = 47.09 (1196)</td>
</tr>
<tr>
<td>G</td>
<td>H = 33.07 (840)</td>
<td>KR = 14.96 (380)</td>
<td>U_B = 20.28 (515)</td>
<td>L_B = 54.49 (1384)</td>
</tr>
</tbody>
</table>

* Bend Radius Options A (140) & B (170) are not available with the RMD aluminum lid option.

** How To Order **

1-800-443-4216

** Calculation of Chain Length **

\[ L_B = \text{total machine travel} \]

\[ L_B = 3.14 \times KR + (2 \times t \text{ safety factor}) \]

** Self-Supporting Lengths **

For more information on extended travel systems, see pages 02.27 - 02.36.

** Extended Travel **

When application travel exceeds the self-supporting length of the carrier, VARITRAK MT carrier systems are designed to glide on themselves in a guide channel.
RMD Lid System

Features rugged aluminum lids that hinge open from either the left or right side on the outside radius of the carrier. Lids on outside and inside radius can also be removed.

Usable Cavity Widths ($B_i$) are available from 3.94" (100 mm) through 23.62" (600 mm) in any width increment.

**MT0950 - 100mm - RMD - (# of links) - (brackets) - (dividers)**

![Diagram of MT0950 - 100mm - RMD](image)

**MT0950 - 600mm - RMD - (# of links) - (brackets) - (dividers)**

![Diagram of MT0950 - 600mm - RMD](image)

**Why use RMD system**

- Completely enclosed cavity design provides excellent protection from chips and debris.
- Aluminum lids are highly heat resistant, offering added protection from hot chips.
- Vertical dividers can be slid into position.
- Numerous options for partitioning cavity contents.
- Ideal when ultra versatile and customizable designs are required.
- Hinged-opening lids on outside radius allow for easy access to carrier cavity for installation and service of carrier contents. Lids are removable on inside and outside radius for additional service options.
- Replaceable glide shoes extend system life in long travel applications.
- Available in widths customized to the exact dimension to fit any application's width restrictions.

**Specifications**

- Maximum Hose O.D. = $h_i \times 0.8$
- Maximum Cable O.D. = $h_i \times 0.9$

For detailed drawings and dimensions of available options, please see pages: 24.22 - 24.23
MT0950 - 77mm - RDD - (KR) - (# of links) - (brackets) - (dividers)

Recommended MINIMUM Width

$B_i = 3.03$ (77)

$B_K = 4.57$ (116)

$h_G' = 3.29$ (83.5)

$h_G = 3.15$ (80)

$h_i = 2.15$ (54.5)

ST = Vertical divider thickness

MT0950 - 349mm - RDD - (KR) - (# of links) - (brackets) - (dividers)

Recommended MAXIMUM Width

$B_K = 15.28$ (388)

$B_i = 13.74$ (349)

$h_G' = 3.29$ (83.5)

$h_i = 2.15$ (54.5)

$h_G = 3.15$ (80)

ST = Vertical divider thickness

Why use RDD system

- Completely enclosed cavity design provides excellent protection from hot chips and debris.
- Rugged fiber reinforced nylon lids are removable on both the inside and outside radius for easy installation and service.
- Outside radius lids also hinge snap-open from either side allowing additional service.
- Dividers lock into position.
- Replaceable glide shoes extend system life in long travel applications.
- By using the twist-in snap locking bar construction, a strong “box” compartment is formed surrounding the contents.
- Widths are available to fit most any application’s width restrictions in 0.63 (16 mm) increments.

RDD System Assembly Detail

Mounting Bracket Options

For detailed drawings and dimensions of available options, please see pages: 24.22 - 24.23

Specifications are subject to change without notice.
Easy Snap-In Cavity Partitioning System for VARITRAK MT 0950 w/ RDD

When multiple cables/hoses or cables/hoses with different diameters are to be placed inside the same carrier system and require vertical stacking, a simple to install snap-in cavity partitioning system should be used. This system easily allows for varying carrier system cavity compartment heights (shelves) and widths (dividers) necessary to properly accommodate each cable or hose.

<table>
<thead>
<tr>
<th>Part Number</th>
<th>A</th>
<th>B</th>
<th>C</th>
</tr>
</thead>
<tbody>
<tr>
<td>71514</td>
<td>0.63 (16)</td>
<td>0.31 (8)</td>
<td>0.18 (4.5)</td>
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<tr>
<td>52580</td>
<td>0.71 (18)</td>
<td>0.39 (10)</td>
<td>0.16 (4)</td>
</tr>
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<td>52581</td>
<td>0.91 (23)</td>
<td>0.59 (15)</td>
<td>0.16 (4)</td>
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<td>52582</td>
<td>1.10 (28)</td>
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<td>0.94 (24)</td>
<td>0.18 (4.5)</td>
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<tr>
<td>52583</td>
<td>1.30 (33)</td>
<td>0.98 (25)</td>
<td>0.16 (4)</td>
</tr>
<tr>
<td>52584</td>
<td>1.50 (38)</td>
<td>1.18 (30)</td>
<td>0.16 (4)</td>
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<tr>
<td>52585</td>
<td>1.69 (43)</td>
<td>1.38 (35)</td>
<td>0.16 (4)</td>
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<td>71516</td>
<td>1.89 (48)</td>
<td>1.57 (40)</td>
<td>0.18 (4.5)</td>
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<td>0.16 (4)</td>
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<td>0.18 (4.5)</td>
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<td>0.16 (4)</td>
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<tr>
<td>71519</td>
<td>3.78 (96)</td>
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<td>0.18 (4.5)</td>
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<td>71521</td>
<td>5.04 (128)</td>
<td>4.72 (120)</td>
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<td>71522</td>
<td>5.67 (144)</td>
<td>5.35 (136)</td>
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<td>71523</td>
<td>6.30 (160)</td>
<td>5.98 (152)</td>
<td>0.18 (4.5)</td>
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<td>71524</td>
<td>6.93 (176)</td>
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<td>0.18 (4.5)</td>
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<td>71525</td>
<td>7.56 (192)</td>
<td>7.24 (184)</td>
<td>0.18 (4.5)</td>
</tr>
<tr>
<td>71526</td>
<td>8.19 (208)</td>
<td>7.87 (200)</td>
<td>0.18 (4.5)</td>
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**Specifications** are subject to change without notice.

KSA-L15015-GC

---

**Technical Data**

**Series**

**MT 1250**

<table>
<thead>
<tr>
<th>Option</th>
<th>Mounting Height (H)</th>
<th>Bend Radius (KR)</th>
<th>Depot (UB)</th>
<th>Loop Length (LB)</th>
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</thead>
<tbody>
<tr>
<td>Option A</td>
<td>21.10 (536)</td>
<td>8.66 (220)</td>
<td>15.47 (393)</td>
<td>37.09 (942)</td>
</tr>
<tr>
<td>Option B</td>
<td>24.25 (616)</td>
<td>10.24 (260)</td>
<td>17.05 (433)</td>
<td>42.01 (1067)</td>
</tr>
<tr>
<td>Option C</td>
<td>27.40 (696)</td>
<td>11.81 (300)</td>
<td>18.62 (473)</td>
<td>46.97 (1193)</td>
</tr>
<tr>
<td>Option D</td>
<td>30.55 (776)</td>
<td>13.39 (340)</td>
<td>20.20 (513)</td>
<td>51.93 (1319)</td>
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<tr>
<td>Option E</td>
<td>33.70 (856)</td>
<td>14.96 (380)</td>
<td>21.77 (553)</td>
<td>56.85 (1444)</td>
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<tr>
<td>Option F</td>
<td>43.15 (1096)</td>
<td>19.69 (500)</td>
<td>26.50 (673)</td>
<td>71.69 (1821)</td>
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</tbody>
</table>

- **KR**: Bend Radius Option A (220) is not available with the RMD aluminum lid option.
- **UB**: Reverse Bend Radius (RKR) links are available for long travel systems that require a lowered mounting height. Consult factory for details.

---

**Calculating Chain Length**

\[ L_{LB} = \text{total machine travel} \]

\[ L_{LB} = 3.14 \times KR + (2 \times t \text{ safety factor}) \]

\[ L_{LB} = \text{chain length required} \]

\[ L_{LB} = \frac{LS}{2} + \text{length of the curve (LB)*} \]

*Assumes the Fixed Point is located at the Center of the Total Machine Travel.

---

**How To Order**

1-800-443-4216

---

**Additional Load**

<table>
<thead>
<tr>
<th>Type MT 1250</th>
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<tbody>
<tr>
<td>lbs</td>
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<tr>
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<td>33.5</td>
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<tr>
<td>26.8</td>
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<td>21.0</td>
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<tr>
<td>15.2</td>
</tr>
<tr>
<td>10.1</td>
</tr>
<tr>
<td>7.0</td>
</tr>
</tbody>
</table>

---

**Self-Supporting Lengths**

- **Unsupported Length**
  - 3.3 ft 1 m
  - 6.6 ft 2 m
  - 9.8 ft 3 m
  - 13.1 ft 4 m
  - 16.4 ft 5 m

---

**Extended Travel**

When application travel exceeds the self-supporting length of the carrier, VARITRAK MT carrier systems are designed to glide on themselves in a guide channel.

For more information on extended travel systems, see pages 02.27 - 02.36

---

**Dimensions in inches (mm)**

**ECONOMIC VALUE ADDED**

A product group’s EVA score is a general indicator that allows a customer to quickly and easily compare a product group’s basic price, features, capabilities and value relative to other comparably sized products within the KS product range.

Download 3D CAD files, videos, updated product info & much more at: [www.kabelschlepp.com/varitrakmt.htm](http://www.kabelschlepp.com/varitrakmt.htm)
**Features rugged aluminum lids that hinge open from either the left or right side on the outside radius of the carrier. Lids on outside and inside radius can also be removed.**

Usable Cavity Widths ($B_i$) are available from 5.91" (150 mm) through 31.50" (800 mm) in any width increment.

---

### MT1250 - 150mm - RMD - (KR) - (# of links) - (brackets) - (dividers)

**Recommended MINIMUM Width**

- $h_G = \frac{3.78}{90.5}$
- $B_i = 5.91$ (150)
- $h_i = 3.78$ (86)
- $h_G = 3.78$ (86)
- $0.20 = ST$

Replaceable glide shoes are available for extending system life in long travel gliding applications. Consult factory for details.

### MT1250 - 800mm - RMD - (KR) - (# of links) - (brackets) - (dividers)

**Recommended MAXIMUM Width**

- $h_G = 3.78$ (86)
- $B_i = 31.50$ (800)
- $h_i = 2.70$ (68.5)
- $B_k = 33.27$ (845)
- $2.70 = h_i$

**Why use RMD system**
- Completely enclosed cavity design provides excellent protection from chips and debris.
- Aluminum lids are highly heat resistant, offering added protection from hot chips.
- Vertical dividers can be slid into position.
- Numerous options for partitioning cavity contents.
- Ideal when ultra versatile and customizable designs are required.
- Hinged-opening lids on outside radius allow for easy access to carrier cavity for installation and service of carrier contents. Lids are removable on inside and outside radius for additional service options.
- Replaceable glide shoes extend system life in long travel applications.
- Available in widths customized to the exact dimension to fit any application’s width restrictions.

**Specifications are subject to change without notice.**

**KABELSCHLEPP**

A member of the TSUBAKI GROUP

**VARITRAK MT**

nylon • tube style • customizable widths

**Series MT 1250**

---

**RMD Assembly Detail**

**Mounting Bracket Options**

For detailed drawings and dimensions of available options, please see pages: 24.22 - 24.23

---

**Need help? 1-800-443-4216 or www.kabelschlepp.com**
Series MT 1250

RDD Lid System

Features glass fiber reinforced nylon lids that hinge open from either the left or right side on the outside radius of the carrier.

Usable Cavity Widths ($B_i$) are available from 4.06" (103 mm) through 14.13" (359 mm) in 17 width options in even increments of 0.63" (16 mm).

Available Cavity Widths ($B_i$) = 4.06 (103), 4.69 (119), 5.31 (135), 5.94 (151), 6.57 (167), 7.20 (183), 7.83 (199), 8.46 (215), 9.09 (231), 9.72 (247), 10.35 (263), 10.98 (279), 11.61 (295), 12.24 (311), 12.87 (327), 13.50 (343), 14.13 (359) (width sizes shown in blue are from stock)

**MT1250 - 103mm - RDD - (# of links) - (brackets) - (dividers)**

**Recommended MINIMUM Width**

Replaceable glide shoes are available for extending system life in long travel gliding applications. Consult factory for details.

**MT1250 - 359mm - RDD - (# of links) - (brackets) - (dividers)**

**Recommended MAXIMUM Width**

**Why use RDD system**

Features glass fiber reinforced nylon lids that hinge open from either the left or right side on the outside radius of the carrier.

Usable Cavity Widths ($B_i$) are available from 4.06" (103 mm) through 14.13" (359 mm) in 17 width options in even increments of 0.63" (16 mm).

Available Cavity Widths ($B_i$) = 4.06 (103), 4.69 (119), 5.31 (135), 5.94 (151), 6.57 (167), 7.20 (183), 7.83 (199), 8.46 (215), 9.09 (231), 9.72 (247), 10.35 (263), 10.98 (279), 11.61 (295), 12.24 (311), 12.87 (327), 13.50 (343), 14.13 (359) (width sizes shown in blue are from stock)

**RDD System Assembly Detail**

**Mounting Bracket Options**

For detailed drawings and dimensions of available options, please see pages: 19.22-23

Specifications are subject to change without notice. KSA-L15015-GC
Easy Snap-In Cavity Partitioning System for VARITRAK MT 1250 w/ RDD

When multiple cables/hoses or cables/hoses with different diameters are to be placed inside the same carrier system and require vertical stacking, a simple to install snap-in cavity partitioning system should be used. This system easily allows for varying carrier system cavity compartment heights (shelves) and widths (dividers) necessary to properly accommodate each cable or hose.

Horizontal shelves can be easily pressed and locked into place between the specially designed RDD vertical dividers. This makes horizontal and vertical partitioning of the carrier's cavity easy to install and highly flexible to meet your application's unique needs.

### Dimension

**Part Number** | **A** | **B** | **C**
---|---|---|---
71514 | 0.63 (16) | 0.31 (8) | 0.18 (4.5)
52580 | 0.71 (18) | 0.39 (10) | 0.16 (4)
52581 | 0.91 (23) | 0.59 (15) | 0.16 (4)
52582 | 1.10 (28) | 0.79 (20) | 0.16 (4)
71515 | 1.26 (32) | 0.94 (24) | 0.18 (4.5)
52583 | 1.30 (33) | 0.98 (25) | 0.16 (4)
52584 | 1.50 (38) | 1.18 (30) | 0.16 (4)
52585 | 1.69 (43) | 1.38 (35) | 0.16 (4)
71516 | 1.89 (48) | 1.57 (40) | 0.18 (4.5)
71517 | 2.28 (58) | 1.97 (50) | 0.16 (4)
52587 | 2.25 (64) | 2.20 (56) | 0.18 (4.5)
52588 | 2.68 (68) | 2.36 (60) | 0.16 (4)
52589 | 3.07 (78) | 2.76 (70) | 0.16 (4)
71518 | 3.15 (80) | 2.83 (72) | 0.18 (4.5)
52590 | 3.46 (88) | 3.15 (80) | 0.16 (4)
71519 | 3.78 (96) | 3.46 (88) | 0.18 (4.5)
71520 | 4.41 (112) | 4.09 (104) | 0.18 (4.5)
71521 | 5.04 (128) | 4.72 (120) | 0.18 (4.5)
71522 | 5.67 (144) | 5.35 (136) | 0.18 (4.5)
71523 | 6.30 (160) | 5.98 (152) | 0.18 (4.5)
71524 | 6.93 (176) | 6.61 (168) | 0.18 (4.5)
71525 | 7.56 (192) | 7.24 (184) | 0.18 (4.5)
71526 | 8.19 (208) | 7.87 (200) | 0.18 (4.5)
**GENERAL DATA**

**Technical Data**

**Series**

**MT 1300**

<table>
<thead>
<tr>
<th>Option</th>
<th>Mounting Height (H)</th>
<th>Bend Radius (KR)</th>
<th>Depot Height (UB)</th>
<th>Loop Length (LB)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Option A</td>
<td>23.62 (600)</td>
<td>9.45 (240)</td>
<td>16.93 (430)</td>
<td>39.92 (1014)</td>
</tr>
<tr>
<td>Option B</td>
<td>26.77 (680)</td>
<td>11.02 (280)</td>
<td>18.50 (470)</td>
<td>44.87 (1140)</td>
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<tr>
<td>Option C</td>
<td>29.92 (760)</td>
<td>12.60 (320)</td>
<td>20.08 (510)</td>
<td>49.82 (1265)</td>
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<tr>
<td>Option D</td>
<td>33.07 (840)</td>
<td>14.17 (360)</td>
<td>21.65 (550)</td>
<td>54.76 (1391)</td>
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<tr>
<td>Option E</td>
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<td>15.75 (400)</td>
<td>23.23 (590)</td>
<td>59.71 (1517)</td>
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<td>44.09 (1120)</td>
<td>19.69 (500)</td>
<td>27.17 (690)</td>
<td>72.08 (1831)</td>
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Additional Load

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<th>15</th>
<th>20</th>
<th>25</th>
<th>30</th>
<th>35</th>
<th>40</th>
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<tr>
<td>3.3 ft (1m)</td>
<td>10.00 kg (22.00 lb)</td>
<td>0.00</td>
<td>0.00</td>
<td>0.00</td>
<td>0.00</td>
<td>0.00</td>
<td>0.00</td>
<td>0.00</td>
<td>0.00</td>
<td>0.00</td>
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<td>6.6 ft (2m)</td>
<td>20.00 kg (44.00 lb)</td>
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<td>0.00</td>
<td>0.00</td>
<td>0.00</td>
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<tr>
<td>16.4 ft (5m)</td>
<td>50.00 kg (110.00 lb)</td>
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</table>

**Calculation of Chain Length**

\[ L_s = \text{total machine travel} \]
\[ L_s = 3.14 \times KR + (2 \times t \text{ safety factor}) \]
\[ L_s = \text{chain length required} \]
\[ L_s = \frac{L_s}{2} + \text{length of the curve (LB)} \]

*Assumes the Fixed Point is located at the Center of the Total Machine Travel.

**How To Order**

1-800-443-4216

<table>
<thead>
<tr>
<th>Number of Systems Req.</th>
<th>Carrier Type</th>
<th>Cavity Width</th>
<th>Type Frame Stay</th>
<th>Bend Radius</th>
<th># of Links</th>
<th>Type &amp; Position Brackets</th>
<th>Dividers</th>
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<tbody>
<tr>
<td>10</td>
<td>MT 1300</td>
<td>20.00&quot;</td>
<td>RMD</td>
<td>240</td>
<td>25 Links</td>
<td>FU/MU</td>
<td>12v/2h</td>
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</tbody>
</table>

Specifications are subject to change without notice.

**For more information on extended travel systems, see pages 02.27 - 02.36**

Reverse Bend Radius (RKR) links are available for long travel systems that require a lowered mounting height. Consult factory for details.
RMD Lid System

Features rugged bolted-on aluminum lids that can be removed from the inside and outside radius of the carrier. Usable Cavity Widths ($B_i$) are available from 3.94" (100 mm) through 31.50" (800 mm) in any width increment.

### MT 1300 - 100mm - RMD

**Recommended**

**MINIMUM Width**

$$h_G = 6.00 (127)$$

$$B_k = 5.91 (150)$$

$$B_i = 3.94 (100)$$

$$3.43 (87) = h_i$$

$$4.72 (120) = h_G$$

- Replaceable glide shoes are available for extending system life in long travel gliding applications. Consult factory for details.

- For more divider options and information, see page 24.20

### MT 1300 - 800mm - RMD

**Recommended**

**MAXIMUM Width**

$$h_G = 3.43 (87)$$

$$B_k = 33.46 (850)$$

$$B_i = 31.50 (800)$$

$$4.72 (120) = h_i$$

- For detailed drawings and dimensions of available options, please see page 24.23

**Mounting Bracket Options**

- Heavy-duty bolt-on aluminum lids on outside radius

**RMD System Assembly Detail**

Why use RMD system

- Heavy-duty bolt-on aluminum lids on inside radius

Specifications are subject to change without notice.
Easy Snap-In Cavity Partitioning Options for VARITRAK MT 1300 RMD

When multiple cables/hoses or cables/hoses with different diameters are to be placed inside the same carrier system and require vertical stacking, a simple to install snap-in cavity partitioning system should be used. This system easily allows for varying carrier system cavity compartment heights (shelves) and widths (dividers) necessary to properly accommodate each cable or hose.

**Divider system TS 0**

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<tr>
<th>Type</th>
<th>Stay</th>
<th>( h_1 )</th>
<th>( S_T )</th>
<th>( \Delta T ) min</th>
<th>( \Delta X ) min</th>
<th>( \Delta X ) section</th>
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</thead>
<tbody>
<tr>
<td>MT 1300 RMD</td>
<td>3.43 (87)</td>
<td>0.20 (5)</td>
<td>0.30 (7.5)</td>
<td>0.59 (15)</td>
<td>0.20 (5)</td>
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</table>

Dimensions in inches (mm)

With aluminum cover systems (RMD), the dividers can be moved.

**Divider system TS 1** with continuous height subdivision made of aluminum

<table>
<thead>
<tr>
<th>Type</th>
<th>Stay</th>
<th>( h_1 )</th>
<th>( S_T )</th>
<th>( \Delta T ) min</th>
<th>( \Delta X ) min</th>
<th>( \Delta X ) section</th>
<th>( S_H )</th>
<th>( h_1 )</th>
<th>( h_2 )</th>
<th>( h_3 )</th>
<th>( h_4 )</th>
</tr>
</thead>
<tbody>
<tr>
<td>MT 1300 RMD</td>
<td>3.43 (87)</td>
<td>0.20 (5)</td>
<td>0.30 (7.5)</td>
<td>0.59 (15)</td>
<td>–</td>
<td>0.16 (4)</td>
<td>0.55 (14)</td>
<td>1.10 (28)</td>
<td>1.65 (42)</td>
<td>2.20 (56)</td>
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</tr>
</tbody>
</table>

Dimensions in inches (mm)

With aluminum cover systems (RMD), the dividers can be moved.

**Divider system TS 3** with section subdivision, partitions made of plastic

<table>
<thead>
<tr>
<th>Type</th>
<th>Stay</th>
<th>( h_1 )</th>
<th>( S_T )</th>
<th>( \Delta T ) min</th>
<th>( \Delta X ) min</th>
<th>( \Delta X ) section</th>
<th>( S_H )</th>
<th>( h_1 )</th>
<th>( h_2 )</th>
<th>( h_3 )</th>
<th>( h_4 )</th>
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<tbody>
<tr>
<td>MT 1300 RMD</td>
<td>3.43 (87)</td>
<td>0.31 (8)</td>
<td>0.30 (7.5)</td>
<td>0.63* (16)*</td>
<td>0.16 (4)</td>
<td>0.55 (14)</td>
<td>1.10 (28)</td>
<td>1.65 (42)</td>
<td>2.20 (56)</td>
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Dimensions in inches (mm)

* When using plastic partitions

Dimensions of plastic partitions for TS 3

<table>
<thead>
<tr>
<th>Sz</th>
<th>( a_X ) (center to center of dividers)</th>
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</thead>
<tbody>
<tr>
<td>0.16 (4)</td>
<td>0.63 (16)</td>
</tr>
<tr>
<td>2.52 (64)</td>
<td>2.68 (68)</td>
</tr>
<tr>
<td>6.93 (176)</td>
<td>7.56 (192)</td>
</tr>
</tbody>
</table>

Dimensions in inches (mm)

* only MT 1300

When using partitions with \( a_X > 4.41" \) (112 mm) there should be an additional central support with a twin divider (\( S_T = 0.16" \) (4 mm)).

Twin dividers are designed for subsequent fitting in the partition system.

铝制隔板宽度为1毫米的隔板也可用。
## DESIGN AND LAYOUT NOTES

<table>
<thead>
<tr>
<th>Name: ___________________________</th>
<th>Date: __________________________</th>
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<td>Dept.: __________________________</td>
<td>Phone: _______ Fax: _______</td>
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<tr>
<td>Company: _________________________</td>
<td>Machine Type/Name: ______________</td>
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</table>

 specifications are subject to change without notice. 

Need help? 1-800-443-4216 or www.kabelschlepp.com
## VARITRAK MT Mounting Bracket Options

### Series MT 0650, 0950, 1250 Standard Mounting Brackets (made of steel)

<table>
<thead>
<tr>
<th></th>
<th>MT 0650</th>
<th>MT 0950 RMD</th>
<th>MT 0950 RDD</th>
<th>MT 1250</th>
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</thead>
<tbody>
<tr>
<td>a</td>
<td>$B_i = 0.63$ (16)</td>
<td>$B_i = 1.22$ (31)</td>
<td>$B_i = 1.02$ (26)</td>
<td>$B_i = 1.26$ (32)</td>
</tr>
<tr>
<td>b</td>
<td>$B_i + 1.97$ (50)</td>
<td>$B_i + 2.40$ (61)</td>
<td>$B_i + 2.60$ (66)</td>
<td>$B_i + 3.07$ (78)</td>
</tr>
<tr>
<td>c</td>
<td>0.25 (6.4)</td>
<td>0.33 (8.4)</td>
<td>0.33 (8.4)</td>
<td>0.41 (10.5)</td>
</tr>
<tr>
<td>d</td>
<td>0.71 (18)</td>
<td>0.98 (25)</td>
<td>0.98 (25)</td>
<td>1.18 (30)</td>
</tr>
<tr>
<td>e</td>
<td>1.18 (30)</td>
<td>1.57 (40)</td>
<td>1.57 (40)</td>
<td>1.97 (50)</td>
</tr>
<tr>
<td>g</td>
<td>0.39 (10)</td>
<td>0.39 (10)</td>
<td>0.39 (10)</td>
<td>0.39 (10)</td>
</tr>
<tr>
<td>h</td>
<td>4.61 (117)</td>
<td>6.48 (164.5)</td>
<td>6.48 (164.5)</td>
<td>8.35 (212)</td>
</tr>
<tr>
<td>j</td>
<td>1.18 (30)</td>
<td>1.57 (40)</td>
<td>1.57 (40)</td>
<td>1.97 (50)</td>
</tr>
<tr>
<td>k</td>
<td>0.59 (15)</td>
<td>0.79 (20)</td>
<td>0.79 (20)</td>
<td>0.98 (25)</td>
</tr>
<tr>
<td>l</td>
<td>0.12 (3)</td>
<td>0.16 (4)</td>
<td>0.16 (4)</td>
<td>0.20 (5)</td>
</tr>
</tbody>
</table>

### VARITRAK MT Standard Bracket Position Options

#### Bracket End
- **M** - Moving End
- **F** - Fixed End

#### Bracket Position
- **A** - connecting surface on outside radius (standard)
- **I** - connecting surface on inside radius
- **H** - connecting surface turned 90° to the outside radius
- **K** - connecting surface turned 90° to the inside radius
- **U** - Universal Bracket (not pictured, see opposite page)
- **F** - Face Mount/Flange Bracket

Bracket feet on the standard brackets can be positioned facing inward (I) which is the standard position or facing outward (A).

Please specify the desired bracket variant and position when ordering. Examples: **FAI/MAI** (Standard) or **FAA/MIA**

The bracket positions at the Fixed End and Moving End can be changed later if required.
**MT 0650, 0950, & 1250 Universal Mounting Brackets (UMB)**

**VARITRAK MT UMB bracket dimensions for 0650 MT - 0650 UMB bracket made of aluminum**

**VARITRAK MT UMB bracket dimensions for 0950 & 1250 MT - 0950 & 1250 UMB bracket made of aluminum**

**VARITRAK MT UMB bracket dimensions for 1300 MT - 1300 UMB bracket made of high-strength plastic**

<table>
<thead>
<tr>
<th>TYPE</th>
<th>BEF</th>
<th>b1</th>
<th>d</th>
<th>l1</th>
<th>l2</th>
<th>l3</th>
<th>l4</th>
<th>l5</th>
<th>h1</th>
<th>hG</th>
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<tbody>
<tr>
<td>MT 0950 RDD</td>
<td>Bi</td>
<td>Bi</td>
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<tr>
<td>MT 1250</td>
<td>Bi</td>
<td>Bi</td>
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<tr>
<td>MT 1300</td>
<td>Bi</td>
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</tr>
</tbody>
</table>

**Ordering Universal Type Brackets**

**Bracket End**

F - Fixed End

M - Moving End

**Bracket Type and Orientation**

U - Universal KSA Style Bracket

Specifications are subject to change without notice.

KSA-L15015-GC